

EXHIBIT

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METHODS FOR IDENTIFYING AGENTS WHICH ALTER HISTONE PROTEIN ACETYLATION, DECREASE AGING OR INCREASE LIFESPAN

RELATED APPLICATIONS

- 5 This application is a continuation-in-part of U.S. Serial No. 09/461,580, filed December 15, 1999, the entire teachings of which are hereby incorporated by reference in their entirety.

GOVERNMENT SUPPORT

- 10 The invention was supported, in whole or in part, by grants AG 11119 and AG15339 from the National Institutes of Aging. The Government has certain rights in the invention.

BACKGROUND OF THE INVENTION

- 15 Aging involves progressive and irreversible loss of cellular processes and physiological functions that ultimately increase the likelihood of death. Molecular correlates of aging, including an increase in chromosomal structural abnormalities, the frequency of single-strand DNA breaks, a decline in DNA methylation, and a loss of DNA telomeric sequences, have been described in a range of eukaryotic organisms from mammals, such as humans, to unicellular organisms, such as yeast.